

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 01144900  
PUBLICATION DATE : 07-06-89

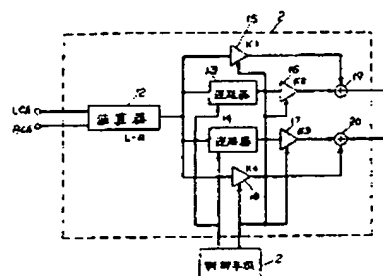
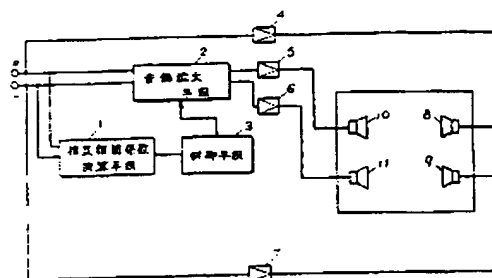
APPLICATION DATE : 01-12-87  
APPLICATION NUMBER : 62305015

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INT.CL. : H04S 5/02 H03G 5/02 H03G 5/16  
H03H 17/02

TITLE : SOUND FIELD REPRODUCING  
DEVICE



**ABSTRACT :** PURPOSE: To attain listening in a sound field in matching with an input signal by obtaining a correlation coefficient of inputted 2-channel signals and controlling the sound field expanding quantity of a sound field expanding means in response to the correlation coefficient.

**CONSTITUTION:** The content of a sound source is discriminated from the inputted 2-channel signal by a correlation coefficient arithmetic means 1. As the method to discriminate the content of the sound source, the correlation coefficient of the 2-channel input signals is calculated. When the correlation coefficient is large, the delay time of delay devices 13, 14 is decreased and coefficients K1-K4 of multipliers 15-18 are decreased to bring the reproduced sound close to the direct sound from speakers 8, 9 thereby improving the articulation. On the other hand, when the correlation coefficient is small, the delay time of the delay devices 13, 14 is increased and the coefficients K1-K4 of multipliers 15-18 are kept to be prescribed values and the reproduced sound is the sum of the direct sound and a sound with a long delay time comprising L-R component. Thus, the listening with a broad presence is attained.

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